What is Framework?

A framework is a collection of [functions](https://techterms.com/definition/function) that can be used to achieve particular task.

Python Frameworks: Django, Flask and Robot Framework

Java Frameworks: Spring, Hibernate and Struts

Java Script Frameworks: React, and Angular

* **Robot Framework Features**

1. Robot Framework is a Python and Java based keyword-driven test automation framework
2. Robot Framework is an open source and platform independent framework
3. Robot Framework is a generic test automation framework
4. By default, Robot Framework creates an XML output file and a log and a report in HTML format.
5. Official sit is for more information <http://robotframework.org/>
6. Provides ability to create reusable [higher-level keywords](http://robotframework.org/robotframework/latest/RobotFrameworkUserGuide.html#creating-user-keywords) from the existing keywords.
7. Provides [tagging](http://robotframework.org/robotframework/latest/RobotFrameworkUserGuide.html#tagging-test-cases) to categorize and [select test cases](http://robotframework.org/robotframework/latest/RobotFrameworkUserGuide.html#selecting-test-cases) to be executed.
8. Provides [test-case](http://robotframework.org/robotframework/latest/RobotFrameworkUserGuide.html#test-setup-and-teardown) and [test-suite](http://robotframework.org/robotframework/latest/RobotFrameworkUserGuide.html#suite-setup-and-teardown) -level setup and teardown.

**IMP Features in robot Framework**

**[Setup]**

**setup is something that is executed before a test case to do required setup for test case execution.**

Example: open a file, start process and create a connection

**[Teardown]**

**Tear down will execute after executing the test case to do cleanup process.**

Example: close a file, stop process and close a connection

**Suite Setup: --**

**It will execute before executing the all test cases to do required setup for execute all test cases.**

Example: open a file, start process and create a connection

**Suite Teardown: -**

**It will execute after executing the all test cases to do cleanup process.**

Example: close a file, stop process and close a connection

**[Tags]**

**Using TAGS, we can give alias name to the test cases to categorize test cases like (sanity, smoke, regression, Critical).**

**With tags, we can include or exclude test cases to be executed.**

**[Documentation]**

**Allows you to set a free documentation for a test case. That text is shown in the command line output, as well as the resulting test logs and test reports.**

**Robot framework execution options**

**# To know robot version**

**robot --version**

**# paasing values to variable through command line =>**

**robot -v ONE:10 Loop.txt**

**# create log file ==>**

**robot -b debug.log test2\_list. robot**

**# validate the test data ==>**

**robot --dryrun test2\_list. robot**

**# To run particular test case ==>**

**robot -t "Add Two Values" first\_test.txt**

**robot -t Addition -t "Test Case 3" first\_test.txt**

**robot -t Add\* first\_test.txt**

**# TO run a test case based on tag =>**

**robot -i test2 first\_test.txt**

**# TO run all test cases except given tag =>**

**robot -e test2 first\_test.txt**

**# Change logs path ==>**

**robot -d C:\Users\ROBOT\_FRAMWEORK\Logs test2\_list. robot**